UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,653	01/24/2007	Bongjun Cha	126587-06090887	2154

22429   7590   06/16/2010
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EXAMINER
PHUONG, DAI

ART UNIT	PAPER NUMBER
2617	

MAIL DATE	DELIVERY MODE
06/16/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<table>
<tr><td rowspan="2">Office Action Summary</td><td>Application No.</td><td>Applicant(s)</td><td></td></tr>
<tr><td>10/590,653</td><td>CHA ET AL.</td><td></td></tr>
</table>

	Application No.	**Applicant(s)**	
Office Action Summary	10/590,653	CHA ET AL.	
	Examiner	**Art Unit**	
	DAI A. PHUONG	2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _____.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-14* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1,2,4-7,10 and 11* is/are rejected.

7)☒ Claim(s) *3,8,9 and 12-14* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *25 August 2006* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☒ All   b)☐ Some * c)☐ None of:

      1.☒ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

DETAILED ACTION

Information Disclosure Statement

1.   The references listed in the Information Disclosure Statement filed on 10/06/2006 have

not been considered by the examiner because it is difference serial numbers.

Claim Rejections - 35 USC § 103

2.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

3.   Claims 1-2, 4-7 and 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Nemeth et al. (Pub. No.: 20020173294) in view of Dutta et al. (U.S. 6993476).

Regarding claim 1, Nemeth et al. disclose a vector animation interactive service method

for implementing an interactive function of a vector animation by interlocking a plug-in

technology used in a browser executed in a mobile communication terminal with a vector

animation technology, the vector animation interactive service method comprising the steps of:

a) requesting a supply of a WAP page through a wireless Internet ([0052] to [0058]);

b) downloading a WML script constituting the WAP page ([0052] to [0058]);

c) transferring the WML script to an embedded plug-in, and processing a portion, which

includes information for an image and a dynamic image or execution information for a game in

the WML script, at a variable value for conversion in the embedded plug-in ([0052] to [0058]).

However, Nemeth et al. do not disclose d) transferring the information processed at the variable value to a vector graphic engine; and e) displaying or executing the image, the dynamic image or the game through the vector graphic engine.

In the same field of endeavor, Dutta et al. disclose d) transferring the information processed at the variable value to a vector graphic engine; and e) displaying or executing the image, the dynamic image or the game through the vector graphic engine (col. 1, line 40 to col. 2, line 52).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the invention of Nemeth et al. by specifically including d) transferring the information processed at the variable value to a vector graphic engine; and e) displaying or executing the image, the dynamic image or the game through the vector graphic engine, as taught by Dutta et al., the motivation being in order to enable image to completely fit on a display.

Regarding claim 2, the combination of Nemeth et al. and Dutta et al. disclose all the limitation in claim 1. Furthermore, Nemeth et al. disclose the vector animation interactive service method as wherein step b) comprises of downloading at least one of a string, the information for the image and the dynamic image and the execution information for the game, which constitute the WAP page, through the WML script ([0052] to [0058]).

Regarding claim 4, the combination of Nemeth et al. and Dutta et al. disclose all the limitation in claim 1. Furthermore, Nemeth et al. disclose the vector animation interactive service method wherein, in step c), when location information of the information for the image and the dynamic image or the execution information for the game is transferred from the browser

to the embedded plug-in, the embedded plug-in downloads the information for the image and the dynamic image or the execution information for the game according to the location information, and processes the downloaded information at the variable value ([0052] to [0058]).

Regarding claim 5, the combination of Nemeth et al. and Dutta et al. disclose all the limitation in claim 1. Furthermore, Nemeth et al. disclose the vector animation interactive service method wherein, in step c), when the browser downloads the information for the image and the dynamic image or the execution information for the game and transfers the downloaded information to the embedded plug-in together with the WML script, the embedded plug-in processes the received information at the variable value ([0052] to [0058]).

Regarding claim 6, the combination of Nemeth et al. and Dutta et al. disclose all the limitation in claim 1. Furthermore, Dutta et al. disclose the vector animation interactive service method wherein step d) comprises of transferring a control authority for the portion including information for the image and the dynamic image or the execution information for the game to the vector graphic engine together with variable value (col. 1, line 40 to col. 2, line 52).

Regarding claim 7, the combination of Nemeth et al. and Dutta et al. disclose all the limitation in claim 1. Furthermore, Nemeth et al. disclose the vector animation interactive service method wherein step d) comprises of additionally transferring layout information for a display of the image or the dynamic image or an execution of the game to the vector graphic engine ([0052] to [0058]).

Regarding claim 10, Nemeth et al. disclose a mobile communication terminal for providing a vector animation interactive service, the mobile communication terminal comprising a WAP browser, an embedded plug-in and retrieve and receive information (0052] to [0058]),

wherein the mobile communication terminal downloads and analyzes a WML script constituting a WAP page of the wireless Internet, processes a portion, which indicates information for an image and a dynamic image and execution information for a game in the WML script, at a variable value for conversion through the embedded plug-in (0052] to [0058])

However, Nemeth et al. do not disclose a vector graphic engine in order to connect to a wireless Internet via a mobile communication network transfers the variable value and a control authority for the portion to the vector graphic engine, and performs a display of the image and a dynamic image or an execution of the game on the WAP browser through the vector graphic engine.

In the same field of endeavor, Dutta et al. disclose a vector graphic engine in order to connect to a wireless Internet via a mobile communication network transfers the variable value and a control authority for the portion to the vector graphic engine, and performs a display of the image and a dynamic image or an execution of the game on the WAP browser through the vector graphic engine (col. 1, line 40 to col. 2, line 52).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the invention of Nemeth et al. by specifically a vector graphic engine in order to connect to a wireless Internet via a mobile communication network transfers the variable value and a control authority for the portion to the vector graphic engine, and performs a display of the image and a dynamic image or an execution of the game on the WAP browser through the vector graphic engine, as taught by Dutta et al., the motivation being in order to enable image to completely fit on a display.

Regarding claim 11, the combination of Nemeth et al. and Dutta et al. disclose all the limitation in claim 10. Furthermore, Nemeth et al. disclose the mobile communication terminal wherein the embedded plug-in provides an effect of direct execution on the WAP browser, so that the embedded plug-in is well utilized for implementing multimedia ([0052] to [0058]).

Allowable Subject Matter

4.   Claims 3, 8-9 and 12-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dai A Phuong whose telephone number is 571-272-7896. The examiner can normally be reached on Monday to Friday, 9:00 A.M. to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dai A Phuong/
Examiner, Art Unit 2617
Date: 06/04/2010